HEAVY-DUTY
COMPACT DRILLS AND SUPER HOLE-SHOOTER DRILLS

1610-1
1630-1
1660-6

COMMON FEATURES:
- 1/2" CAPACITY

1663-20
- 1/2" CAPACITY

ELECTRONICS

2404-1
- 1-1/4" CAPACITY
- FURNISHED WITH NO. 3 INTERNAL MORSE TAPER SOCKET

1854-1
- 3/4" CAPACITY

COMPACT AND SUPER HOLE-SHOOTER FEATURES

- **Extra Long Switch Handle And Pipe Handle Allow Maximum Leverage For Drilling, Reaming Large Holes And Added Control**
- **Rear Mounted Assist Spade Handle**
- **Moly Chrome Alloy Steel Gears For High Torque Transmission With Minimum Wear**

EXCLUSIVE 1663-20 FEATURES

- **Current Feedback Reduces Speed Fluctuation When Tool Is Under Load**
- **Soft Start Reduces Initial Start-Up Torque And Reduces The Stress On The Gear Train–Rapidly Reaches Full Speed**
- **Line Voltage Compensation** For normal variations in input voltage levels. Keeps motor speed constant.
- **8' Three-Wire Quik-Lok® Cord Set** Quick detachment from tool for tangle-free carrying and storage. Instant field repair.
- **Conveniently Located Reversing Switch**
- **Dial Speed Control – Adjust Speed With Thumb Wheel** Tool will operate at selected speed until reset.

2404-1 AND 1854-1 SPECIAL FEATURES

- **Heavy-Duty Aluminum Alloy Housing**
- **Powerful Milwaukee Built Motor–Reversing**
- **Ruggedly Built, Reserve Power For Toughest Drilling Jobs**
- **Heat Treated Helical-Cut Gears For Quiet Performance**
- **Drive Shafts Run Smooth On Pre-Lubricated Ball Bearings**

ACCESSORIES

QUICK CHANGE CHUCK

48-03-0006 1/2" 7/16" Quick Change drive shank converts your 3-jaw chuck into a quick change chuck. Allows rapid, keyless insertion and removal of 7/16" hex drive accessories.

TYPE "E" GREASE FOR COMPACT HOLE-SHOOTERS

49-08-4122 1 lb. can

TYPE "J" GREASE FOR SUPER HOLE-SHOOTERS

49-08-4220 1 lb. can

SPECIFICATIONS

CATALOG NUMBER	CAPACITY IN STEEL (INCHES)	VOLTS	AMPS	NO LOAD RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	REPLACEMENT CHUCK CATALOG NO. CHUCK KEY INCLUDED	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INCHES)	NET WGT. LBS.	SHIP. WGT. LBS.
1610-1	1/2	120 AC ONLY	7.0	650	DOUBLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	11.2	12.4
1630-1	1/2	120 AC ONLY	7.0	900	DOUBLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	11.2	12.4
1660-6	1/2	120 AC-DC	7.0	450	TRIPLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	11.4	12.6
1663-20	1/2	120 AC ONLY	7.0	115-450	TRIPLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	11.9	13.3
1854-1	3/4	120 AC DC	10.0	350	TRIPLE	#3 J.T.*	48-66-2085	48-66-3160	18-1/2	19.0	23.0
2404-1 ■	1-1/4	120 AC DC	10.0	250	TRIPLE	#3 M.T.▲	-	-	18-3/4	23.8	27.8

STANDARD EQUIPMENT: FOR 1663-20 8' 3-Wire Quik-Lok Cord No. 48-76-4008.

* Jacobs Taper Spindle. ▲ With No. 3 Internal Morse Taper Socket. ■ To adapt a 3/4" Capacity Chuck to 2404-1 Drill with No. 3 Internal Morse Taper Socket, order Accessory Chuck Kit No. 49-22-1550. (Kit Consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100.)